Notation:

Article title .....[month — page number]
Example: .....06 — 61 = June 2000, page 61
S = in PC Topics Supplement
Cumulative Index also available from
http://www.elektor-electronics.co.uk (Free Downloads)

Application Notes

MAX807 .....05 — 68
MCP120/130 .....07 — 100
Simple High-Side Current Meter .....04 — 60
Xicor X9258T, 9250T
Digital Controlled Potentiometers .....11 — 28

Audio, Video, Music

11 W Stereo or 22 W Mono Power Amp .....12 — 42
3-Input Video MUX Cable Driver .....12 — 30
AF Amplifier with Up/Down Volume Setting .....07 — 52
Audio Attenuator .....07 — 102
Audio DAC 2000 (3) .....01 — 12
Coaxial S/PDIF Output .....07 — 97
Digital Volume Control .....03 — 26
Low-Noise Microphone Amplifier .....07 — 45
MIDI Merger .....05 — 16
Modern Surround-Sound Systems .....09 — 22
MP3 Basics and Chipsets .....05 — 20
New Audio Formats .....03 — 46
Noise-Driven Sound Generator .....07 — 23
One-IC Audio Power amplifier .....02 — 44
Optical S/PDIF Output .....07 — 68
'OSCAR' MP3 Player (1) .....09 — 36
'OSCAR' MP3 Player (2) .....10 — 40
Parameter Box for MIDI Software .....02 — 28
PC Audio Amp .....11 — 68
Record/Playback Module .....05 — 28
RGB-to-Colour Difference Converter .....12 — 78
S/PDIF output for OSCAR
(and other digital-audio equipment) .....10 — 28
Simple MD Cartridge Preamplifier .....07 — 58
Software Synthesizers .....10 — 56
Top of the Range Volume Control .....10 — 32
USB Audio DAC .....12 — 44
Valve Preamplifier (1) .....06 — 41
Valve Preamplifier (2) .....07 — 28
Valve Preamplifier (2a) .....09 — 68
Valved RIAA Preamplifier .....12 — 56
Video Correction for Pinnacle Studio MP10 .....07 — 60
Video-Out Coupling .....07 — 57
Voice Shifter .....04 — 48

Computers, Microprocessors, Software, Internet

2532/2732 EPROM Adapter .....12 — 20
32-Channel Digital Input Card for PC Serial Port ...03 — S2
537 'Lite' Computer (1) .....01 — 22
537 'Lite' Computer (2) .....02 — 50
8 Channel D/I Card for RS232 .....07 — 48
8 Channel D/O Card for RS232 .....07 — 72
8-Bit I/O Port .....07 — 88
Adapter for SB Live! Player 1024 .....07 — 22
Analogue Input for Lego RCX Module .....12 — 30
ATX Power Switch Substitute .....03 —S9
BASIC Stamp Programming Course (5) .....01 — 36
BASIC Stamp Programming Course (6) .....02 — 36
BASIC Stamp Programming Course (7) .....03 — 22
BASIC Stamp Programming Course (8) .....04 — 30
BASIC-537 .....02 — 40
Baud Rate Generator .....07 — 57
Bit Calculator .....12 — 78
Bluetooth .....01 — S10
CAN Adapter for ISA Bus .....12 — 12
CANOpener .....12 — 97
Compiler for PIC16C84 .....01 — S2
Controller Area Network (CAN) (part 5) .....01 — 46
COP8 Design Competition Results .....09 — 64
Curve Plotting with HP-GL/2 .....07 — 84
DVD — The Megastore .....06 — 60
E12 Series in Excel .....07 — 96
EEPROM Adapter .....12 — 76
e-Key Electronic Access System .....11 — 36
Electronic Ear for Lego RXC Module .....12 — 20
Electronics OnLine: Build a Crystal Radio .....01 — 54
Electronics OnLine: Build Your Own Plotter .....03 — 52
Electronics OnLine:
Do More with Your BASIC Stamp .....05 — 39
Electronics Online:
Finding Components and Datasheets .....11 — 72
Electronics OnLine: LART .....12 — 49
Electronics OnLine: Nick's Hardware Area .....02 — 35
Electronics OnLine: Robot Parts .....04 — 35
Electronics Online:
Students Make Internet Projects .....10 — 66
Electronics OnLine: Tiny Webservers .....06 — 48
Electronics Online: Web Connected Organs .....09 — 66
ePanorama.net .....12 — 24
GBDT — Gameboy Development Tools .....12 — 70
Heatsink Calculations .....07 — 20
HotKeys Keyboard (1) .....04 — 68
Hotkeys Keyboard (2) .....05 — 40
I^2C Multiplexer .....12 — 94
Implementing the I^2C Bus .....07 — 86
JAL for the PIC84 .....07 — 47
JMM (Java MultiMeter) .....03 — S10
LCD Driver for BASIC Stamp II .....11 — 60
Lego Robotics Invention System (1) .....04 — 36
Lego Robotics Invention System (2) .....05 — 48
Lego Robotics Invention System (3) .....06 — 68
Lego Robotics Invention System (4) .....10 — 14
Lego Robotics Invention System (5) .....11 — 32
LPT Exerciser .....01 — S8
Magnetic Card Reader .....06 — 35

Make Your Own DVDs .....06 — 33
Measuring in Word and Excel .....05 — 45
One-Wire Spy .....06 — 28
Opto-Isolated RS232 Interface .....07 — 81
PC 12-V Adapter .....07 — 51
PC Audio Amp .....11 — 68
PC Battery Charger .....07 — 96
PC Interface for CAN Bus .....06 — 50
PC Interface for Nintendo Joystick .....02 — S2
PC Keyboard Encoding .....02 — 12
PC Motherboards .....04 — 40
PC Serial Peripheral Design (1) .....09 — 12
PC Serial Peripheral Design (2) .....10 — 52
PC Serial Peripheral Design (3) .....11 — 62
PC Serial Peripheral Design (4) .....12 — 66
PC-Hosted Test Equipments .....05 — 66
PCI-Hosted Measurement Cards .....10 — 46
PIC 17C Processor Board .....09 — 28
PIC16F84/16C84 Mini Programmer .....12 — 40
RJ45 Network Cable Tester .....09 — 16
Running Text Display .....02 — S6
Serial Transceiver .....05 — 56
Serial-to-Parallel Converter .....07 — 71
Series/Parallel Equivalent Circuits in Excel .....07 — 68
Software Synthesizers .....10 — 56
Sound-to-Light PLUS .....12 — 50
The New Elektor Electronics Website .....02 — 14
The Universal Serial Bus (USB) (1) .....09 — 52
The Universal Serial Bus (USB) (2) .....10 — 22
Universal Parallel Input/Output for PCs .....04 — 20
USB Audio DAC .....12 — 44
USB Interface .....09 — 44
Versatile Centronics/I²C Interface .....10 — 68
Versatile LED Display .....03 — 12

General Interest

0 - 2 µF Variable Capacitor .....12 —86
1 kH Synthetic Inductor .....12 — 29
1.5-V Amplifier .....12 — 62
10 to 100 MHz Oscillator .....07 — 55
2 x Dual = 1 x Quad .....07 — 76
2 x Single = 1 x Dual .....07 — 52
A CD for Christmas .....12 — 100
Analogue Optical Coupler .....07 — 78
Bipolar Stepper Motor Control .....07 — 43
Car Boot Lamp Warning .....12 — 79
Car Burglar Alarm .....07 — 104
Comparator-based Crystal Oscillator .....12 — 83
Cumulative Index 2000 .....12 — 102
Desoldering .....02 — 48
Display Info .....12 — 21
DIY Front Panels .....07 — 24
ECG Simulator .....05 — 52
Electronic Bell for Christmas .....11 — 16
Flashing LED Sweetheart .....02 — 33
Flipflop Timer .....12 — 77
Frequency Doubler .....12 — 76
Furby Revealed .....12 — 88
Garden Lighting .....12 — 90
Infra-Red Light Barrier .....07 — 74
Infrared Remote Control .....02 — 22
Intelligent Door Lock .....06 — 14
Kinetic Auto Relay .....06 — 24
Lead-Free Soldering .....05 — 64
Light That Heats .....07 — 14
Low Impact Muscle Stimulator .....04 — 12
Make Your Own Front Panels .....07 — 62
Märklin Digital Model Train Control (1) .....09 — 58
Märklin Digital Model Train Control (2) .....10 — 62
Muller-C Element .....12 — 77
Multifunction Clock .....04 — 54
Multi-Purpose IR Receiver .....12 — 72
Night Sky Model .....12 — 31
One-Minute Light .....10 — 60
PC-Controlled Model Railway:
EEDTS-Pro Loco Return Signaller .....01 — 40
Precision Voltage to Current Converter .....12 — 84
Pressure Switch .....07 — 106
Pushbutton-Controlled Trimpot ICs .....12 — 92
Rail-to-Rail and Over-the-Top Opamp .....12 — 98
Rainwater Storage Gauge .....12 — 23
RC5 Sleep Timer .....05 — 12
Receiver for Fibre-Optic IR Extender .....07 — 25
Rhine Tower Clock Mk2 .....01 — 26
Robots in the Automobile Industry .....03 — 24
Signal Module for EEDTS Pro .....07 — 38
Simple Frequency Doubler .....07 — 70
Simple Sump Pump Controller .....12 — 88
Simple Touch Pad Dimmer .....07 — 47
Single-Chip Switch Debouncer .....07 — 79
Single-Opamp 10-MHz Bandpass Filter .....07 — 78
Soft Start for Torch .....05 — 72
Solar Cells from Royal Dutch Shell .....03 — 42
Speedometer .....03 — 32
Static Charges .....01 — 44
Stepper Motor Generator .....07 — 59
Stepper Motor Microstep Driver .....12 — 93
Three Switches on One RCX Input .....12 — 80
Transmitter for Fibre-Optic IR Extender .....07 — 18
Two-Position Dimmer .....07 — 55
Universal Rev Counter .....12 — 38
Video Camera on Model Train .....11 — 42
White LED Lamp .....07 — 44
Working with SMDs .....05 — 76
Working with Touch Screens .....05 — 60

Power Supplies & Battery Chargers

±5-V Voltage Converter .....07 — 46
150 mA LDO Regulator with Power O/K .....12 — 86
3-volts Car Adapter .....07 — 23
Battery Charger Display .....12 — 82

[continued overleaf]

Battery Discharger .....07 — 71
Battery Technology Today & Tomorrow .....05 — 32
Compact Switching Step-Down Converter .....07 — 44
DC Adapter with Battery Backup .....12 — 24
DC/DC Converter from +1.5 V to +34 V .....12 — 95
High Input Voltage Linear Regulator .....12 — 25
Mains Powered! .....07 — 76
Negative Shunt Regulator .....12 — 39
PC 12-V Adapter .....07 — 51
PC Battery Charger .....07 — 96
Power-On Sequencer .....07 — 45
Solar Charging Regulator .....03 — 12
Surge Protection .....07 — 42
Switch ICs with Adjustable Current Limiting .....07 — 80
Switching Voltage Regulator .....12 — 85
Transformer Board .....01 — 32
Universal Symmetric Power Supply .....07 — 82
Voltage Reference for Battery Powered Circuits .....07 — 77

Radio, TV & Communications

0-44 dB RF Attenuator .....07 — 56
2-Metre Band Converter .....02 — 16
Active Whip Aerial .....04 — 45
Diode Radio for Low Impedance Headphones .....07 — 77
External RF Power Control for 2m/70cm Handhelds 12 — 87
GSM Call Indicators .....09 — 62
Midget Medium-Wave Receiver .....03 — 16
MMIC Antenna Amplifier with Bypass Switch .....12 — 84
One Transistor Radio .....07 — 59
PAL TV Pattern Generator .....11 — 52
Regenerative SW Receiver .....11 — 22
Relative Fieldstrength Meter for 2-m Band .....12 — 28
Simple RF Detector for 2m .....07 — 53
UMTS — Universal Mobile Telephone System (1) .....12 — 32
Vibrating Batteries for GSM Phones .....04 — 63
WAP or i-mode? .....07 — 11
Wideband Active Loop Antenna .....01 — 20
Wireless Application Protocol (WAP) .....06 — 56

Test & Measurement

20th-Order Measurement Filter .....07 — 94
555 Signal Generator Kit .....12 — 82
Byte Generator .....02 — S10
ECG Amplifier .....12 — 21
Electronic Stethoscope .....07 — 20
ESR Measurements .....07 — 19
GBDSO —
Gameboy Digital Sampling Oscilloscope (1) .....10 — 34
GBDSO —
Gameboy Digital Sampling Oscilloscope (2) .....11 — 12
High Voltage Difference Amplifier .....12 — 22
High-Side Current Measurements .....07 — 58
Hold Adaptor for Voltmeters .....12 — 96
I/U Curve Tracer .....03 — S6
Instrumentation Amplifier with Improved CMRR .....12 — 89
JMM (Java MultiMeter) .....03 — S10
Max. Temp. Detector for Fan Controller .....07 — 54
Measuring in Word and Excel .....05 — 45
Measuring Inductors .....07 — 69
Measuring with an NTC .....11 — 59
Noise Injector .....07 — 26
Optimised Semiconductor Noise Source .....12 — 87
PAL TV Pattern Generator .....11 — 52
PC-Hosted Test Equipments .....05 — 66
PCI-Hosted Measurement Cards .....10 — 46
Precision Electroscope .....07 — 21
RJ45 Network Cable Tester .....09 — 16
Scope Triggering Aid for Video Signals .....12 — 28
Sensitive Overload Sensor .....07 — 83
Simple mV Source .....07 — 69
Simple Voltmeter .....12 — 29
Single-Supply Measurement Amplifier .....12 — 28
Symmetric Noise Source .....12 — 81
Temperature Measurements with the DS1621 .....03 — 36

Datasheets

DAC3550A (Micronas / Intermetall) .....05 — 73
DF1704 (Burr-Brown) .....01 — 55
DS1267 (Dallas Semiconductor) .....10 — 73
DS1621 (Dallas Semiconductor) .....03 — 53
HT12A/HT12D (Holtek) .....02 — 53
MAX114 (Maxim Inc.) .....11 — 73
OCX Instruction Set (Lego) .....06 — 65
PCM2702 (Burr-Brown) .....12 — 105
PIC17C75x Instruction Set (Microchip) .....09 — 73
RSC-164 (Sensory Inc.) .....04 — 65

Corrections & Updates, Letters (P.O. Box 190)

3-Volt Car Adapter .....11 — 30
537 'Lite' Computer .....07 — 64
537 'Lite' Computer .....11 — 30
8-Bit I/O Port .....11 — 30
BASIC-537 .....07 — 64
EEDTs Pro Super Loco Decoder .....11 — 30
EEDTs Pro .....03 —39
HotKeys Keyboard (1&2) .....11 — 30
I²C Interface For the Printer Port .....03 — 39
Low-Impact Muscle Stimulator .....07 — 64
MP3 Basics & Chipsets .....07 — 64
OSCAR MP3 Player .....11 — 19
PIC17C Processor Board .....11 — 30
Poor Man's Shortwave Radio .....03 — 39
The Debate Continues... .....09 — 11
Twinkling GSM Antennas .....11 — 19
Valve Preamplifier .....09 — 11
When Electronics was Young (9) .....02 — 11
Working with a Touch Screen .....07 — 64
Working with a Touch Screen .....09 — 11